

FIG. 1

5nm/100A

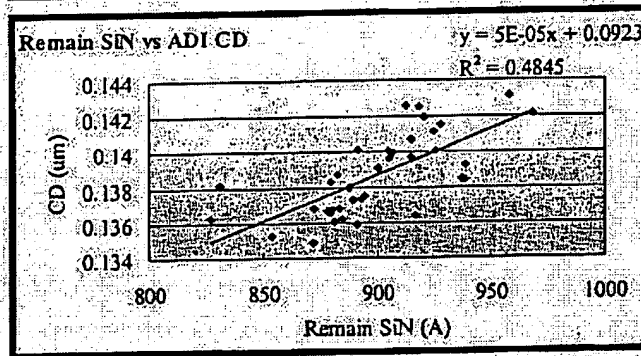


FIG. 2A

1nm/100A

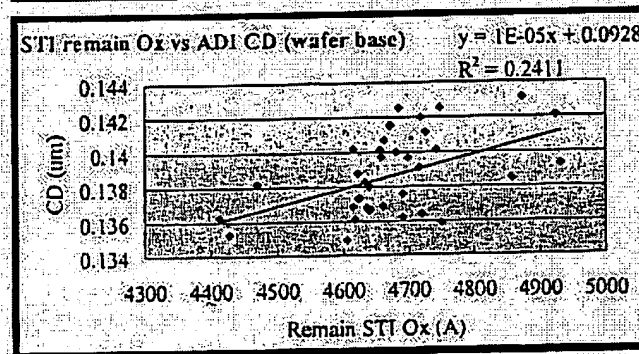


FIG. 2B

$$CD = 5 \times 10^{-3} \cdot SiN + 0.0919$$

$$(CD - CD_{avg}) = 5 \times 10^{-3} (SiN - SiN_{avg})$$

$$(CD - 0.138) = 5 \times 10^{-3} (SiN - 882)$$

$$\Delta E_{\text{dose}} = \lambda_{\text{dose}} \times 5 \times 10^{-3} (SiN - 882)$$

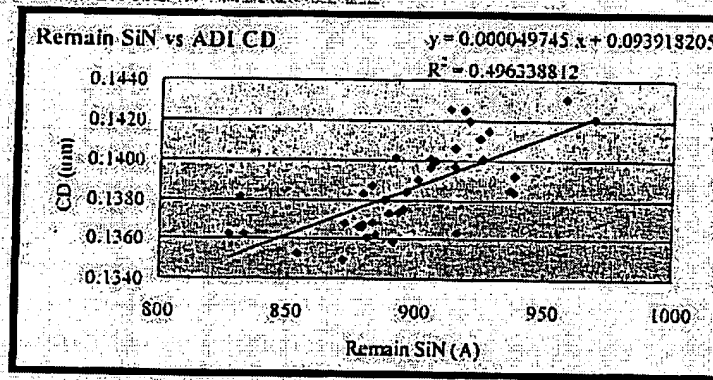


FIG. 3

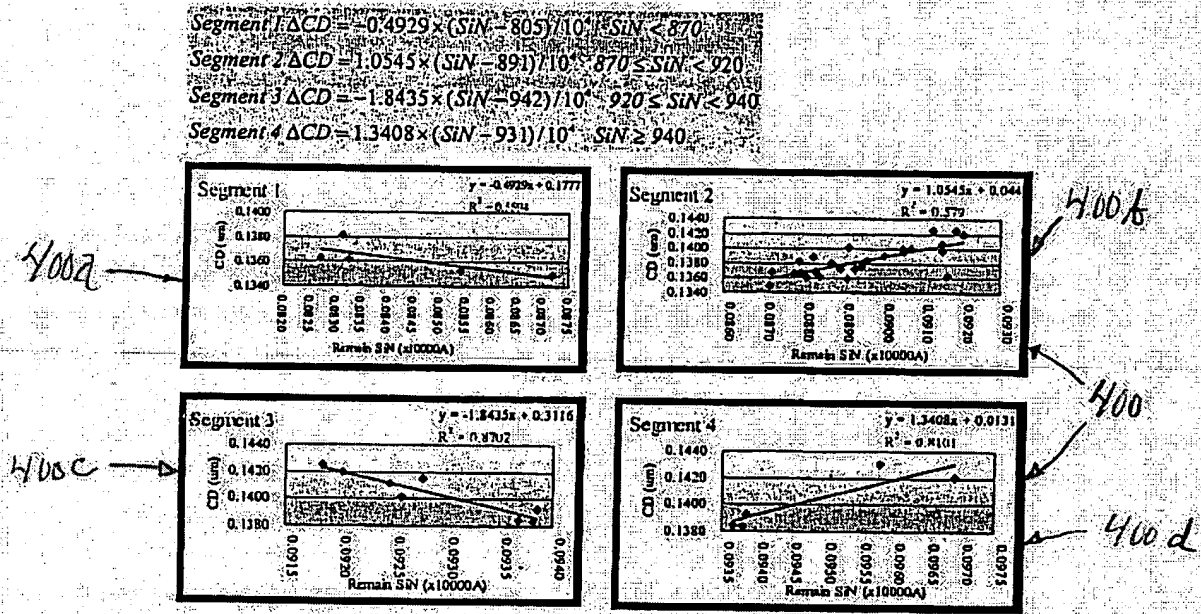


FIG. 4

$$CD = -35485.98743 \times SiN^3 + 9437.96146 \times SiN^2 - 835.46149 \times SiN + 24.75252$$

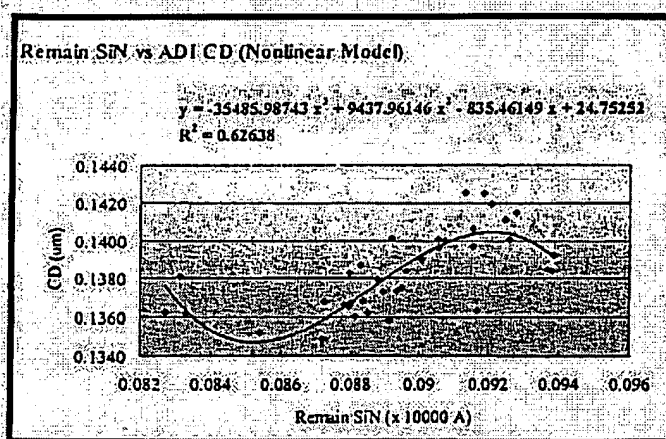


FIG. 5

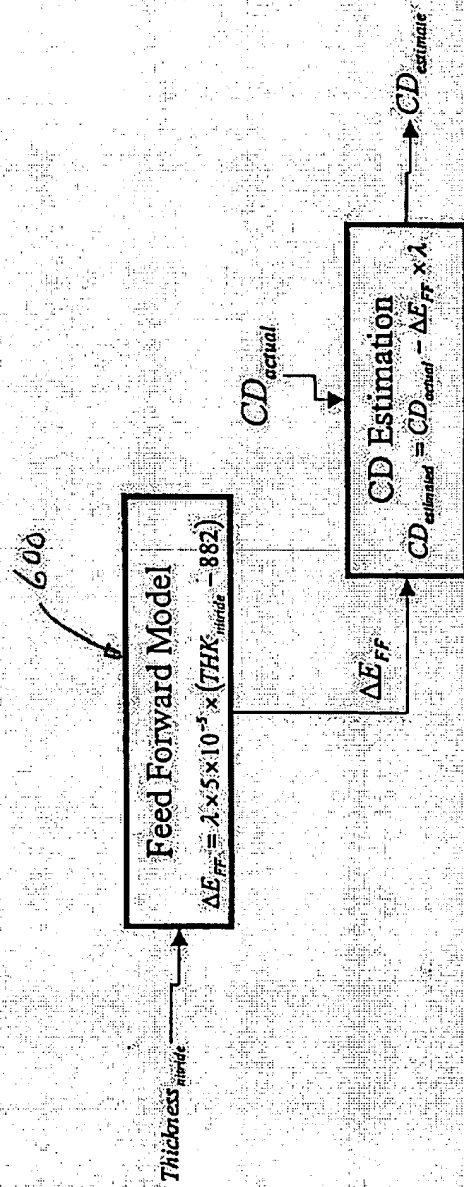


FIG. 6

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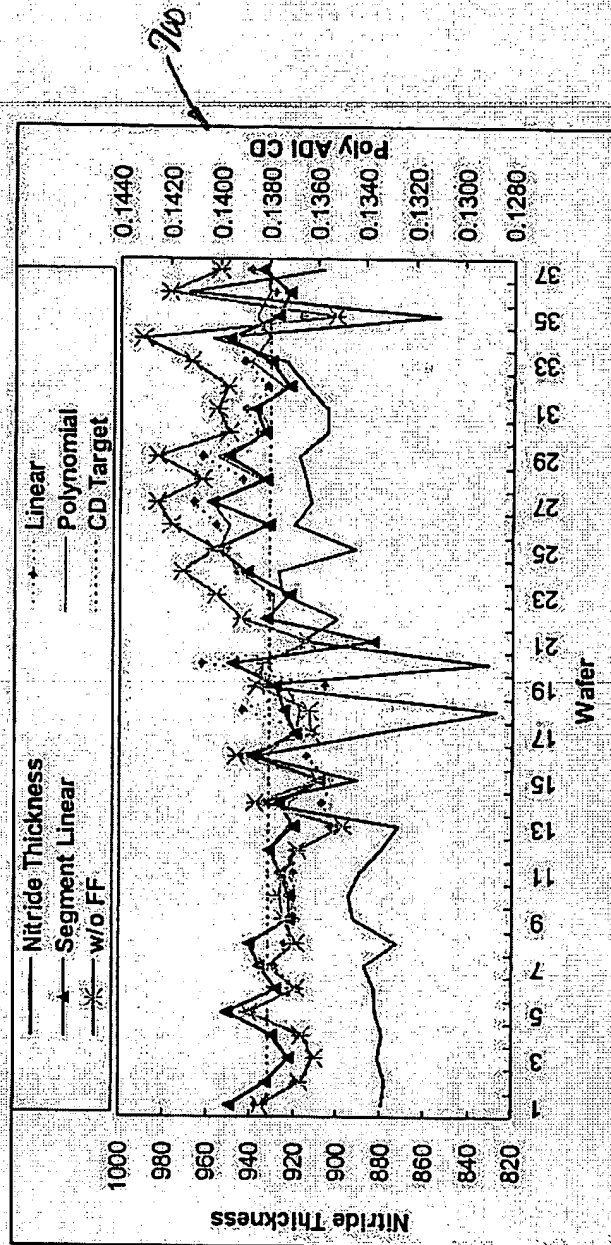


FIG. 7

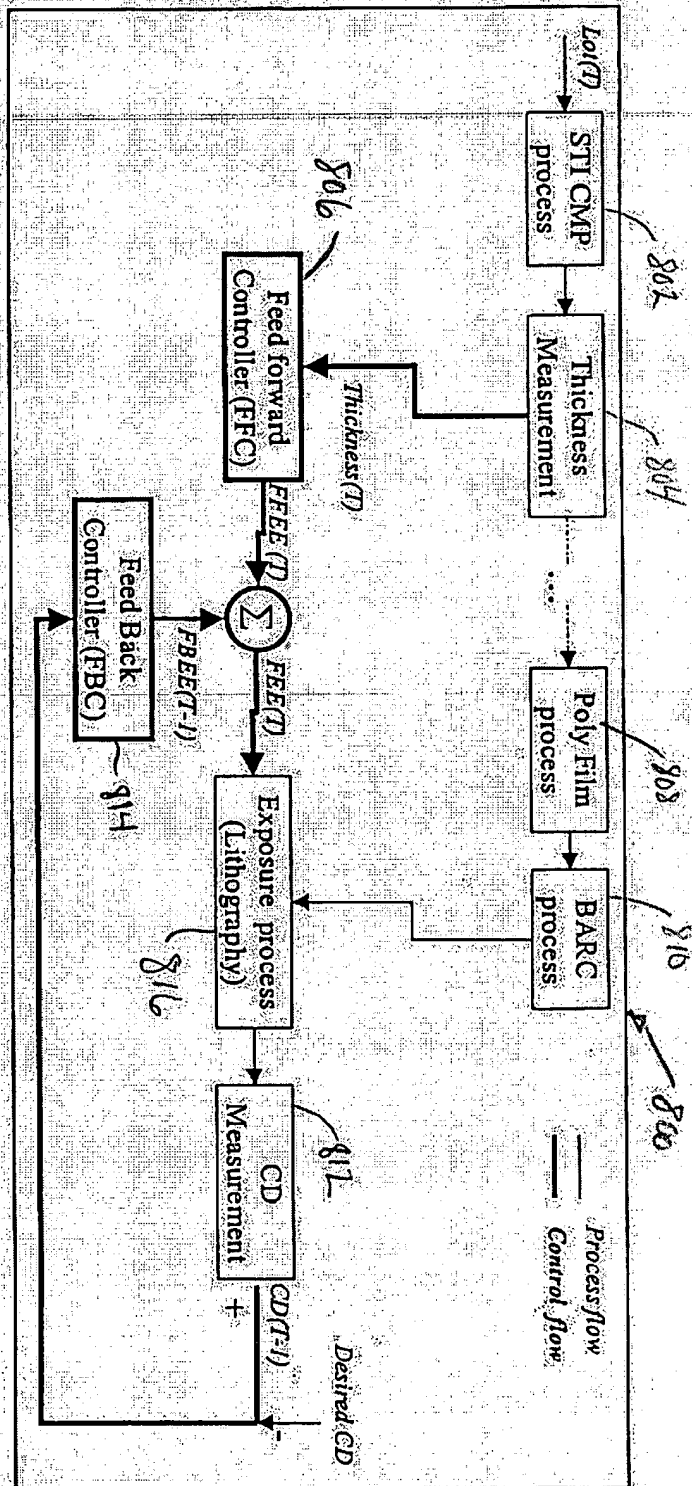


FIG. 8

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